CO2 Orbital Shaking Incubator LX500OSI

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Description

CO2 Orbital Shaking Incubator LX500OSI is designed with a 7-inch high-resolution touch screen with a PID control system for rapid temperature rise and high control accuracy. The inner chamber is constructed with SUS304 brushed stainless steel plate and the outer chamber is constructed with powder coated steel. It has featured various types of safety functions such as automatic activation of backup data to ensure continuous working in case speed is out of control, and automatic cut-off of heating when temperature rises rapidly caused by heating system failure. It is specially designed for non-adherent cell culture applications in Clinical and Research fields.

Specifications

Capacity	208 L
Chamber dimensions (W x D x H)	850 x 570 x 430 mm
Chamber material	SUS304
Shaking platform material	Aluminum alloy
Exterior material	Mild steel with powder coating
Control	PID
Display	7” Color LCD touch screen
Convection	Forced convection
Shaking (standard)	Orbital
Shaking (optional)	Linear
Drive	Single shaft balanced drive
Environment temperature	15℃-35℃
Refrigeration	Air cooling, R134a, Power controllable refrigeration, Frost free
CO2 Sensor	IR
CO2 Control range	0-20 %
CO2 Control accuracy	0.1% (@CO2 concentration 5%)
CO2 Display resolution	0.1,%
CO2 Uniformity	±0.5% (@CO2 concentration 5%)

CO2 Recovery speed	10min (CO2 concentration 5%, door open 1minute)
Humidity control range	Environmental humidity to 95% RH(without cooling); 80% RH(with cooling)
Humidity control accuracy	±5 %
Door-open recovery time	15 min
Water tank capacity	138 ml
External water tank	1 Pcs
Temp. control range	-18°C -60°C (min. 4°C)
Temp. resolution	0.1℃
Temp. fluctuation	≤±0.2℃
Temp. uniformity	≤±0.5 (37°C)
Temp. accuracy	±0.1°C
Speed	0-300 rpm
Speed accuracy	±1 rpm
Orbit	Φ25 mm (optional: Φ50mm or 0-50mm adjustable)
Timing range	0-9999hr or 0-9999min
Platform size	780 x 500 mm
Power	980 W
Input power	AC 200-240V/50-60Hz
Overall dimension (W x D x H)	1200 x 797 x 640 mm
Net weight	324 kg
Packing dimension (L x W x H)	1330 x 1000 x 930 mm
Gross weight	395 kg

Features

- Maximum shaking speed is 0-300rpm
- CO2 concentration range is 0~20% and Infrared sensor workable at 90°C
- Equipped with a 7-inch touchscreen display with PID control system and various types of audio and visual alarms
- Stackable design for a maximum of 3 units
- Built-in inverter refrigeration system with R134a CFC-free refrigerant
- 3-level access authority with screen lock protection and history data log query
- It has a Fluorescent lamp for illumination and UV light for sterilization in the chamber
- Single-shaft balanced drive
- Featured with DC servo motor for control of positive and negative rotation
- Equipped with double-layer toughened safety glass door
- Soft stop of shaking and heating in case of unexpected door opening, automatic starts when the door is closed again
- Perform real-time curve review and history data storage and export for 1,000,000 records or up to 5 years
- It has a water-resistance chamber
- Shaking platform material is aluminum alloy
- Adjustable ventilation port
- Came with a unique mechanical drive system with ultra-low noise
- Equipped with a USB port for export data

Applications

- CO2 Orbital Shaking Incubators are mainly used in various fields like Cell Culture, Clinical, Medical, Research lab, Biotechnology, Pharmaceutical, etc.

Standard Accessories

- USB data export interface
- UV lamp x 1 Pcs
- Fluorescent lamp x 1 Pcs
- Flask shaking platform
- Flask clamps (One size offered as standard configuration)
- CO2 inlet tube (1.6m)
- Internal water tray 40-50% RH(@A37℃)
- HEPA filter x 1 Pcs
- R485 port

Optional Accessories

- 3 mm orbit high-speed shaking 800-1000rpm for microplates
- CO2 regulation port
- Integrated thermal printer
- Universal spring platform
- Sticky pad
- External humidity control system (with heater and external water tank)
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- Light shelter (horizontally open/close)
- LED culture lighting system

Configuration

Flask specification	Maximum capacity
250 ml	40
500 ml	28
1000 ml	15
2000 ml	12 (alternatively)

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